

DAFTAR PUSTAKA

- Handoyo, Y. (2015). Pengaruh *Quenching* dan *Tempering* pada baja JIS grade S45C terhadap sifat mekanis dan struktur mikro *Crankshaft*. *Jurnal Ilmiah Teknik Mesin*, 3(2), 102–115.
- Haryadi, G. D., Utomo, A. F., & Ekaputra, I. M. W. (2021). Pengaruh variasi temperatur *Quenching* dan media pendingin terhadap tingkat kekerasan baja AISI 1045. *Jurnal Rekayasa Mesin*, 16(2), 255–264.
- Holmberg, J., Wendel, J., & Stormvinter, A. (2024). Progressive *induction Hardening*: Measurement and alteration of *Residual stresses*. *Journal of Materials Engineering and Performance*, 33(15), 7770–7780. <https://doi.org/10.1007/s11665-024-09703-0>
- Karamanli, I. A., & Unal, O. (2025). Tailoring wear properties of nodular cast iron through *induction Hardening* optimization. *International Journal of Metalcasting*, 19(6), 3274–3290. <https://doi.org/10.1007/s40962-025-01548-0>
- Lu, S.-Q., & Chiu, L.-H. (2024). Effect of different microstructures on surface *Residual stress* of *induction* -hardened bearing steel. *Metals*, 14(2), Article 201. <https://doi.org/10.3390/met14020201>
- Naubnome, V., Widiyanto, E., & Marno. (2017). Pengaruh waktu pemanasan menggunakan pemanas induksi terhadap kekerasan dan struktur mikro material S50C. *LONTAR Jurnal Teknik Mesin Undana*, 4(1), 48–52.
- Nugroho, S., Fitriyana, D. F., Ismail, R., Nurcholis, T. A., Cionita, T., & Siregar, J. P. (2022). The effect of surface *Hardening* on the HQ 705 steel *camshaft* using static *induction Hardening* and *Tempering* method. *Automotive Experiences*, 5(3), 343–354. <https://doi.org/10.31603/ae.7029>
- Priadi, D., Setyadi, I., & Siradj, E. S. (2003). Pengaruh kecepatan dan temperatur uji tarik terhadap sifat mekanik baja S48C. *Makara Teknik*, 7(1), 21–25.
- Purwanto, H., Dzulfikar, M., Tauviquirrahman, M., Ismail, R., & Jumain, A. (2021). The effect of austenization temperature in surface *Hardening* process on steel plate as ballistic plate. *Journal of Physics: Conference Series*, 1908,

- Article 012030. <https://doi.org/10.1088/1742-6596/1908/1/012030>
- Saptohadi, M. R., Ismail, R., & Sulardjaka. (2024). Pengukuran kekerasan, *Case Depth*, dan panjang pembakaran *Crankshaft* R tipe A123 hasil induksi *Hardening* dan pengujian kesesuaian dengan standar di PT XYZ. *Jurnal Teknik Mesin S-1*, 12(3), 359–366.
- Shi, X., Lv, C., Li, G., Wang, K., Chen, J., & Tang, J. (2023). Study on *induction Hardening* performance of 34CrNi3MoA steel *Crankshaft*. *Frontiers in Materials*, 10, Article 1240087. <https://doi.org/10.3389/fmats.2023.1240087>
- Firdaus, R., Paryanto, P., & Sulardjaka, S. (2023). *Crankshaft hardness* quality evaluation of passenger car. *International Journal of Automotive and Mechanical Engineering*, 20(1), 10322–10334. <https://doi.org/10.15282/ijame.20.1.2023.13.0798>
- Prakoso, D. S. A., Purwanto, H., & Dzulfikar, M. (2019). Analisa pengaruh *Tempering* menggunakan pemanas induksi pasca *Quenching* dengan media oli pada baja AISI 1045 terhadap struktur mikro dan nilai kekerasan sebagai material pengganti pin track link bulldozer. *Momentum*, 15(2), 180–184. <https://doi.org/10.14710/mmt.15.2.180-184>
- Singh, A. K. (2014). Establishing core *hardness* by *induction Hardening* process for *Crankshaft*. *International Journal of Engineering Sciences & Research Technology*, 3(3), 1594–1599.
- Lu, S.-Q., & Chiu, L.-H. (2024). Effect of different microstructures on surface *Residual stress* of *induction* -hardened bearing steel. *Metals*, 14(2), Article 201. <https://doi.org/10.3390/met14020201>
- Hindarto, A. D., Budiarto, B., & Abadi, S. (2025). Analisa proses double hardening terhadap kekuatan material S48 pada komponen axle shaft. *Kohesi: Jurnal Sains dan Teknologi*, 8(3), 61–70. <https://doi.org/10.2238/fcbz3p40>
- Arjendra, J. N. (2024). *Analisa pengaruh waktu temper terhadap struktur mikro, komposisi unsur kimia dan kekerasan pada baja VCN 150* [Skripsi, Universitas Kristen Indonesia].
- Geovanni, D. C. (2024). *Pengaruh temperatur temper terhadap struktur kristal*,

- kekerasan, dan sifat mekanik pada baja S45C* [Skripsi, Universitas Kristen Indonesia].
- Haris, H. F. (2023). *Pengaruh waktu tempering terhadap struktur kristal, kekerasan, dan kuat tarik pada baja VCN 150* [Skripsi, Universitas Kristen Indonesia].
- Fischer, A., Scholtes, B., & Beck, T. (2020). On the influence of surface hardening treatments on microstructure evolution and residual stress in microalloyed medium carbon steel. *Journal of Materials Engineering and Performance*, 29, 4414–4426. <https://doi.org/10.1007/s11665-020-04866-y>
- International Association of Classification Societies. (2023). *M53: Calculation of crankshafts for I.C. engines* (Rev. 5). International Association of Classification Societies.
- Jiregna, I. T., Sirata, G. G., & Soramo, F. T. (2020). Fatigue failure analysis of crankshafts: A review. *International Journal of Innovative Science, Engineering & Technology*, 7(5), 93–106.
- Leitner, M., Aigner, R., & Grün, F. (2019). Numerical fatigue analysis of induction-hardened and mechanically post-treated steel components. *Machines*, 7(1), 1. <https://doi.org/10.3390/machines7010001>